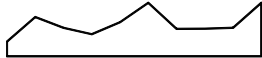

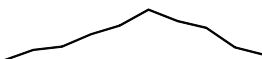
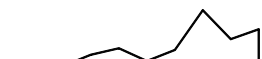
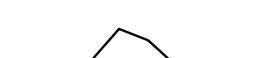


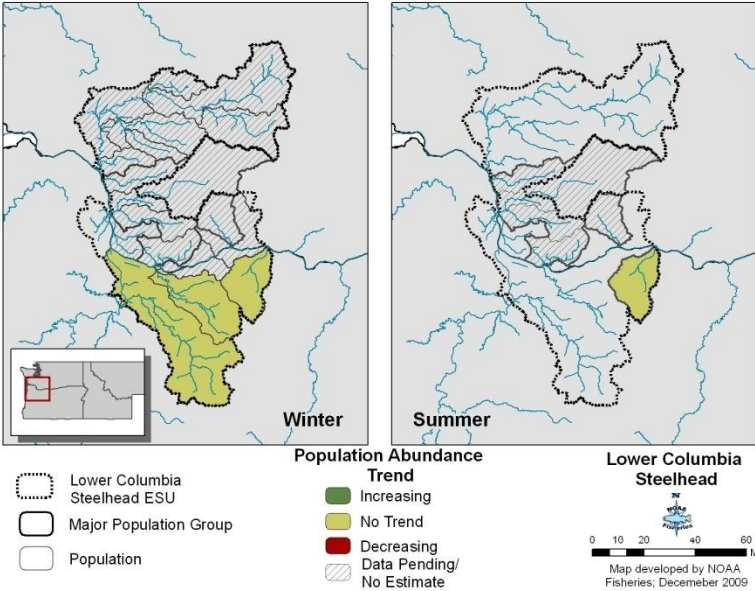




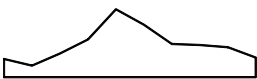

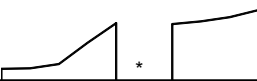
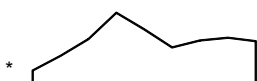

LOWER COLUMBIA RIVER STEELHEAD: 1999-2008 ESA LISTING STATUS: Threatened 1998

MPG Population		Trend category	Trend (slope of ln natural-origin abundance)	10-year Spawning Abundance 1999-2008 black= natural-origin, line= total	10-year Geometric Mean (Total Spawners)	10-year Geometric Mean (Natural-origin Spawners)
Winter - Cascade	Coweeman River	Natural-origin Abundance Pending			415	
	East Fork Lewis River	Natural-origin Abundance Pending			460	
	Kalama River	Natural-origin Abundance Pending			1242	
	North Fork Toutle River	Natural-origin Abundance Pending			344	
	South Fork Toutle River	Natural-origin Abundance Pending			618	
	Washougal River	Natural-origin Abundance Pending			474	
	Sandy River	No trend	-0.04		777	777
	Cispus River	NE				
	Lower Cowlitz River	NE				
	North Fork Lewis River	NE				
	Salmon Creek	NE				
	Tilton River	NE				
	Upper Cowlitz River	NE				



This summary sheet contains abundance trend information compiled from state and tribal sources using methodologies developed by the NWFSC Technical Recovery Teams. It is intended for summary information purposes; please see <http://www.nwfsc.noaa.gov/> for more detailed information on population and ESU status. Trend was calculated as the slope of the linear regression of log transformed natural origin spawning abundance over the last 10 years of available data. See [Good et al. \(2005\)](#) for details. Trends with a p -value < 0.05 were classified as "no trend".

NE= No estimate *= No available data for one or more years

MPG Population		Trend category	Trend (slope of ln natural-origin abundance)	10-year Spawning Abundance 1999-2008 black= natural-origin, line= total	10-year Geometric Mean (Total Spawners)	10-year Geometric Mean (Natural-origin Spawners)
Winter - Gorge	Hood River	No trend	0.01		975	558
	Lower Gorge	NE				
	Tributaries					
	Upper Gorge	NE				
Winter - Willamette						
	Clackamas River	No trend	0.02		1583	1163
Summer - Cascade	North Fork Lewis River	NE				
	East Fork Lewis River	Natural-origin Abundance Pending			391	
	Kalama River	Natural-origin Abundance Pending			350	
	Washougal River	Natural-origin Abundance Pending			381	
Summer - Gorge						
	Wind River	Natural-origin Abundance Pending			592	
	Hood River	No trend	-0.01		295	188

DPS ABUNDANCE TREND: NO TREND

Trend Category	# of populations
Increasing	0
No trend	4
Decreasing	0
Data pending/ No estimate	19

Natural spawning abundance estimates are still being updated and were only available for 4 populations, all of which had no significant trend. However total spawning abundance was available for 10 populations. Using total abundance, these populations were also determined have 'no trend', thus the ESU is categorized as having no trend.

Abundance is only 1 of 4 Viable Salmonid Population indicators. The other factors - productivity, diversity, spatial structure - also influence ESU status.